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PATENTS ONLY

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Attorney Docket No. 450106-02849

Applicant(s) : Nakamura, et al.
For : DIGITAL SIGNAL PROCESSING APPARATUS
AND METHOD
Corresponding Int'l Appln. : PCT/JP00/08112
International Filing Date : November 17, 2000

Commissioner of Patents and Trademarks
Washington, D.C. 20231

1. Names of Conveying Parties : Masashi NAKAMURA, Hisayoshi MORIWAKI, Sunao FURUI, Ichiro HAMADA
2. Names and addresses of receiving parties : Sony Corporation
7-35 Kitashinagawa 6-Chome,
Shinagawa-ku, Tokyo 141, Japan
3. Nature of Conveyance : Assignment.
Execution Dates : June 20, 2001, June 20, 2001, June 22, 2001 and June 22, 2001.
4. Application No.:
 This document is being filed together with a new application, the execution date of the application is June 20, 2001, June 20, 2001, June 22, 2001 and June 22, 2001.
5. Name and address of party to whom the recorded assignment and any correspondence concerning the document should be mailed:

William S. Frommer
Registration No. 25,506
FROMMER LAWRENCE & HAUG LLP
745 Fifth Avenue
New York, New York 10151.

6. Total number of applications and patents involved: 1.
7. Total Fee (37 CFR 3.41): \$40.00.
 Fee enclosed, Check No. 16604.
8. Charge Fee Deposit Account No. 50-0320 (Attach duplicate copy of this page if paying by deposit account).
 If any additional fee is required, authorization is hereby given to charge Deposit Account No. 50-0320.
9. Statement and Signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

William S. Frommer, Esq.
Name of Person Signing

Signature

July 16, 2001
Date

ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

DIGITAL SIGNAL PROCESSING APPARATUS AND METHOD

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, SONY CORPORATION, a Japanese corporation, with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo 141, Japan (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow:

International Serial Number: PCT/JP00/08112, International Filing Date: 17 November 2000.

This assignment executed on the dates indicated below.

Masashi NAKAMURA

Name of first or sole inventor

Execution date of U.S. Patent Application

Chiba, Japan

Residence of first or sole inventor

Masashi Nakamura

June 20, 2001

Signature of first or sole inventor

Date of this assignment

Hisayoshi MORIWAKI

Name of second inventor

Execution date of U.S. Patent Application

Tokyo, Japan

Residence of second inventor

Hisayoshi Moriwaki

June 20, 2001

Signature of second inventor

Date of this assignment

Sunao FURUI

Name of third inventor

Execution date of U.S. Patent Application

Kanagawa, Japan

Residence of third inventor

Sunao Furui

June 22, 2001

Signature of third inventor

Date of this assignment

Ichiro HAMADA

Name of fourth inventor

Kanagawa, Japan

Residence of fourth inventor

Ichiro Hamada

Signature of fourth inventor

Execution date of U.S. Patent Application

June 22, 2001

Date of this assignment

Declaration and Power of Attorney for Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

私は、以下に記名された発明者として、ここに下記の通り宣言する：

As a below named inventor, I hereby declare that:

私の住所、郵便の宛先そして国籍は、私の氏名の後に記載された通りである。

My residence, post office address and citizenship are as stated next to my name:

下記の名称の発明について、特許請求範囲に記載され、且つ特許が求められている発明主題に関して、私は、最初、最後且つ唯一の発明者である（唯一の氏名が記載されている場合）か、或いは最初、最後且つ共同発明者である（複数の氏名が記載されている場合）と信じている。

I believe I am the original, first and sole inventor if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled.

DIGITAL SIGNAL PROCESSING APPARATUS
AND METHOD

the specification of which is attached hereto unless the following box is checked:

was filed on _____
as United States Application Number of _____
PCT International Application Number PCT/JP00/03112
_____ and was amended on _____
(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

私は、上記の補正書によって補正された、特許請求範囲を含む上記明細書を核査し、且つ内容を理解していることをここに表明する。

私は、連邦規則法典第37編規則1. 56に定義されている、特許性について重要な情報を示す義務があることを認める。

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the need of the individual case. Any comments on the amount of time you are required to complete this form should be sent to Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Washington, DC 20231.

Japanese Language Declaration

日本語宣言書

私は、ここに、以下に記載した外国での特許出願または発明者証の出願、或いは米国以外の少なくとも一国を指定している米国法典第35編第365条(a)によるPCT国際出願について、同第119条(e)・(d)項又は第365条(b)項に基づいて優先権を主張するとともに、優先権を主張する本出願の出願日よりも前の出願日を有する外国での特許出願または発明者証の出願、或いはPCT国際出願については、いかなる出願も、下記の枠内をチェックすることにより示した。

Prior Foreign Application(s)

外国での先行出願

11-327160
(Number)
(番号)
PCT/JP00/03112

Japan
(Country)
(国名)
PCT
(Country)
(国名)

17 November 1999
(Day/Month/Year Filed)
17 November 2000

(Number)
(番号)

(Country)
(国名)

(Day/Month/Year Filed)

私は、ここに、下記のいかなる米国仮特許出願についても、その米国法典第35編第119条(e)項の利益を主張する。

(Application No.)
(出願番号)

(Filing Date)
(出願日)

私は、ここに、下記のいかなる米国出願についても、その米国法典第35編第120条に基づく利益を主張し、又米国を指定するいかなるPCT国際出願についても、その同第365条(c)に基づく利益を主張する。また、本出願の各特許請求の範囲の主題が、米国法典第35編第112条第1段に規定された結果で、先行する米国出願又はPCT国際出願に開示されていない場合においては、その先行出願の出願日と本国内出願日またはPCT国際出願との間の期間中に入手された情報で、連邦規則法典第37編規則1.56に定義された特許性に係わる重要な情報について開示義務があることを承認する。

(Application No.)
(出願番号)

(Filing Date)
(出願日)

私は、ここに表明された私自身の知識に係わる陳述が眞実であり、且つ情報と信じることに基づく陳述が、眞実であると信じられることを宣言し、さらに、故意に虚偽の陳述などを行った場合は、米国法典第18編第1001条に基づき、罰金または拘禁、若しくはその両方ににより処罰され、またそのような故意による虚偽の陳述は、本出願またはそれに対して発行されるいかなる特許も、その有効性に問題が生ずることを理解した上で陳述が行われたことを、ここに宣言する。

I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT international application having a filing date before that of the application for which priority is claimed.

Priority Not Claimed

優先権主張なし

17 November 1999

(Day/Month/Year Filed)

17 November 2000

(Day/Month/Year Filed)

(Day/Month/Year Filed)

(Day/Month/Year Filed)

(Day/Month/Year Filed)

(Day/Month/Year Filed)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)
(出願番号)

(Filing Date)
(出願日)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of application.

(Status: Patented, Pending, Abandoned)
(現況:特許許可、係属中、放棄)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Japanese Language Declaration

日本語宣言書

委任状： 私は本出願を審査する手続を行い、且つ米国特許商標庁との全ての業務を遂行するために、記名された発明者として、下記の弁理士及び／または弁理士を任命する。（氏名及び整理番号を記載すること）

書類送付先

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact al business in the Patent and Trademark Office connected therewith (list name and registration number)

WILLIAM S. FROMMER, Registration No. 25,506 and
DENNIS M. SMID, Registration No. 34,930

Send Correspondence to:
WILLIAM S. FROMMER, Esq.
c/o FROMMER LAWRENCE & HAUG LLP
745 Fifth Avenue
New York, New York 10151

直通電話連絡先：（氏名及び電話番号）

Direct Telephone Calls to: (212) 588-0800
To the attention of: WILLIAM S. FROMMER

唯一または第一発明者氏名

発明者の署名

日付

住所

国籍

郵便の宛先

第二共同発明者がいる場合、その氏名

第二共同発明者の署名

日付

住所

国籍

郵便の宛先

（第三以下の共同発明者についても同様に記載し、署名をすること）

Full name of sole or first inventor

Masashi NAKAMURA

inventor's signature

Date

Masashi Nakamura June 20, 2001

Residence

Chiba, Japan

Citizenship

Japan

Post Office Address:

Sony Corporation
7-35 Kitashinagawa 6-Chome
Shinagawa-Ku, Tokyo 141, Japan

full name of second joint inventor, if any

Hisayoshi MORIWAKI

Second Inventor's signature

Date

Hisayoshi Moriwaki June 20, 2001

Residence

Tokyo, Japan

Citizenship

Japan

Post Office Address

Sony Corporation
7-35 Kitashinagawa 6-Chome
Shinagawa-Ku, Tokyo 141, Japan

(Supply similar information and signature for third and subsequent joint inventors)

Japanese Language Declaration

日本語宣言書

委任状： 私は本出願を審査する手続を行い、且つ米国特許商標庁との全ての業務を遂行するために、記名された発明者として、下記の弁護士及び／または弁理士を任命する。（氏名及び整理番号を記載すること）

書類送付先

直通電話連絡先：（氏名及び電話番号）

第三共同発明者がいる場合、その氏名

第三共同発明者の著名

日付

住所

国籍

郵便の宛先

第四共同発明者がいる場合、その氏名

第四共同発明者の著名

日付

住所

国籍

郵便の宛先

（第五以下の共同発明者についても同様に記載し、著名をすること）

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact al business in the Patent and Trademark Office connected therewith (list name and registration number)

WILLIAM S. FROMMER, Registration No. 25,506 and
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WILLIAM S. FROMMER, Esq.
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745 Fifth Avenue
New York, New York 10151

Direct Telephone Calls to: (212) 588-0800
To the attention of: WILLIAM S. FROMMER

Full name of third joint inventor, if any

Sunao FURUI

Third inventor's signature

Date

Sunao Furui June 22, 2001
Residence

Kanagawa, Japan

Citizenship

Japan

Post Office Address:

Sony Corporation
7-35 Kitashinagawa 6-Chome
Shinagawa-Ku, Tokyo 141, Japan

Full name of fourth joint inventor, if any

Ichiro HAMADA

Fourth Inventor's signature

Date

Ichiro Hamada June 22, 2001
Residence

Kanagawa, Japan

Citizenship

Japan

Post Office Address:

Sony Corporation
7-35 Kitashinagawa 6-Chome
Shinagawa-Ku, Tokyo 141, Japan

(Supply similar information and signature for fifth and subsequent joint inventors)